NEW HAMPSHIRE WATER SUPPLY AND POLLUTION CONTROL COMMISSION LAKE TROPHIC DATA

MORPHOMETRIC:						
LAKE <u>Cub Pond, Little</u>		AKE AREA (HA) _	4.77			
TOWNDanville		MAXIMUM DEPTH (M) 2.3				
COUNTYRockingham		MEAN DEPTH (M)1.2				
RIVER BASIN <u>Merrimack</u>	,	VOLUME (M ³) 59,000				
LATITUDE <u>42° 55' N</u>		MUD SURFACE AREA (HA) 4.77				
LONGITUDE 710 08' W		RELATIVE DEPTH 0.9				
ELEVATION (FT)205		SHORE CONFIGURATION				
SHORE LENGTH (M)		AREAL WATER LOAD (M/YR) 33.04				
WATERSHED AREA (HA)345.2		FLUSHING RATE (YR-1)26.7				
% WATERSHED PONDED		PHOSPHORUS RETENTION COEFF. 0.42				
BIOLOGICAL: DATE			6 Sept. 1983			
DOM. PHYTOPLANKTON (% total) 1			Dinobryon (35%)			
2			Mallomonas (25%)			
NUMBER OF ALGAL GENERA		4	14			
SPECIES DIVERSITY			2.45			
CHLOROPHYLL <u>a</u> (µg/L)			11.42			
DOM. ZOOPLANKTON (% total) 1			Nauplius larvae (25%)			
2			Calanoid copepods (15%)			
ROTIFERS/LITER			141			
· MICROCRUSTACEA/LITER			334			
TOTAL ZOOPLANK. CNTS (cells/L)			572			
VASCULAR PLANT ABUNDANCE			Common			
DOMINANT VASCULAR PLANTS 1			Pontederia			
2			Potamogeton			
3			Sparganium			
SECCHI DISK TRANSPARENCY (M)			1.5			
BOTTOM DISS. OXYGEN (mg/L)			0.8			
SEDIMENT: % ORGANIC MATTER						
LAKE TYPE:						
SUMMER THERMAL STRATIFICATION:	YES	NO WEAK	X			
IF YES, VOLUME OF HYPOLIMNION	0	(m³) THI	ERMOCLINE DEPTH (m)			

CHEMICAL: (mg/L unless indicated otherwise) LAKE: Cub Pond, Little							
	WINTER				SUMMER		
DATE						6 Sept.	1983
DEPTH (M)					1.0		
pH (UNITS)					5.8		
ALKALINITY (I. P.)							
ALKALINITY (F.E.P.)					4.2		
NITRITE+NITRATE NITROGEN							
TOTAL KJELDAHL NITROGEN							
TOTAL PHOSPHORUS					0.021		
SPEC. CONDUCT. (µMhos/cm)				3	3.1		
APPARENT COLOR (UNITS)				8	0		
TRUE COLOR (440 nm)(UNITS)							
MAGNESIUM					0.64		
CALCIUM	-				2.4		
SODIUM					3		
POTASSIUM			· .		0.7		
CHLORIDE							1
TN : TP							
INORG-N : INORG-P							
[Mg+Ca] : [Na+K]					0.82		
CALCITE SATURATION INDEX					4.5	·	
* = NOT DEFENSIBLE NR = NO RESULT							
TROPHIC CLASSIFICATION:	1983	D.O.		PLANT ABUND.	CHL a	TOTAL PTS.	TROPHIC CLASS.
CLASSIFICATION	POINTS:	. 3	3	2	3	11	EUTRO.

COMMENTS:

- No winter samples were collected from this pond. Access road was very rough.

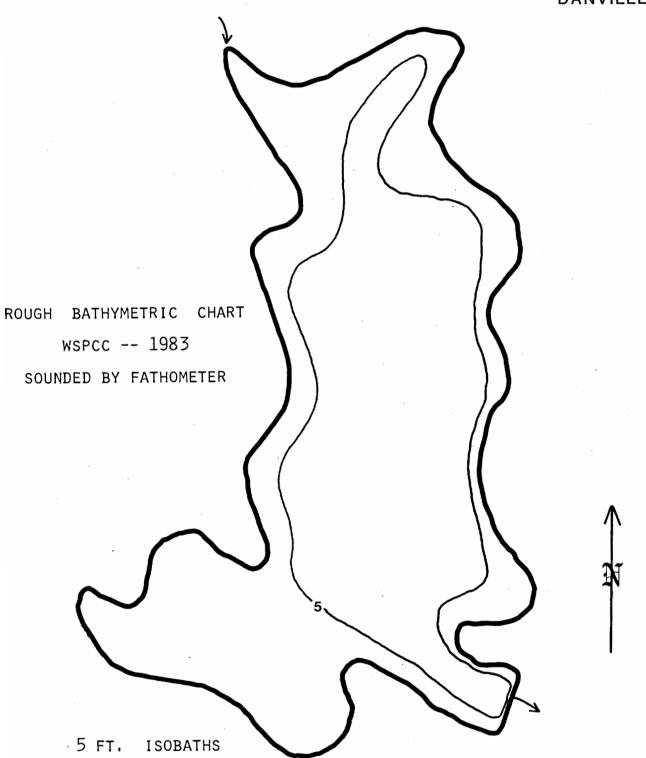
 2. Water color dark brown.

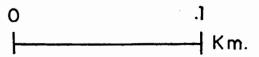
 3. No public access.

 4. No thermocline was present.

CUB POND, LITTLE

DANVILLE





FIELD DATA SHEET

WATER BODYCL	ub Pond, Lit	tle	TOWN D	anville		WSPCC 3Y	-
DATE COLLECT	rED Septe	ember 6, 198	33 WE	EATHER	ot, hazy & h		
STATION	DEPTH (M)	TEMP. (°C)	*DISSOLVED OXYGEN	OXYGEN: % SATURATION			
Deep Spot	0.0	26.0	7.9	98%			·
	0.5	25.0	7.9				
-	1.0	24.2	7.2			-	
	1.5	22.5	3.8				
	2.0	20.5	0.8	9%			
	·			·			
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			·				
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·							
SECCHI DISK (N	M) 1.5			OMMENTS	^ 1 l	1. 1.	

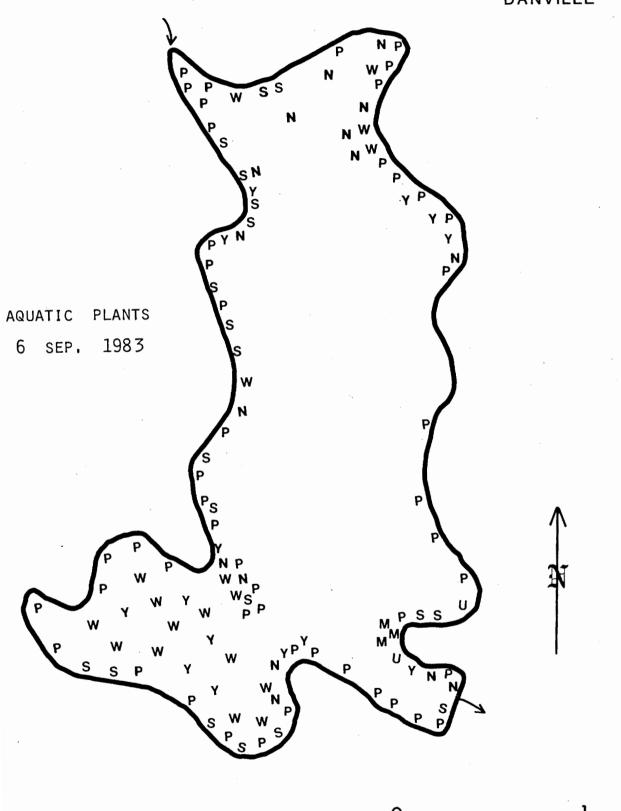
SECCHI	DISK	(M)	1.5	<u>-</u> -
BOTTOM	DEPTH	(M)	2.0	
TIME			1215	

COMMENTS: A low bottom dissolved oxygen was present despite no thermocline. A small temperature decrease from top to bottom did occur.

^{*} Dissolved oxygen values in mg/L

CUB POND, LITTLE

DANVILLE



AQUATIC PLANT SURVEY

LAKE Cub Pond, Little TOWN Danville DATE 9/6/83 BY WSPCC							
Key	PLANT GENERIC	ABUNDANCE					
М	Myriophyllum humile	Water Milfoil	sparse				
U	Utricularia	Bladderwort	sparse				
Р	Pontederia cordata	Pickerelweed	common				
S	Sparganium	Bur Reed	common				
N	Nymphaea	White Water Lily	common				
Υ	Nuphar	Yellow Water Lily	scattered				
W	Potamogeton	Pondweed	common				
·							
·							
		OVERALL ABUNDANCE	common				

GENERAL OBSERVATIONS:

- Plants were common along the entire shoreline and were abundant in the shallow cove at the southwest end of the pond.
- Submerged growth was probably more abundant than indicated in the deeper water, but the highly colored water restricted visibility.